Work Orde February-14-13					`			Page 1				
Item ID: Revision ID: Item Name:	D3914- Long Ba		sembly (350)		Accept	*N900	<u>040</u>	100)*	Setup Sta	1 1	S1* S2*
Start Date: Required Date: Reference:	2/25/13 2/25/13		rt Qty: 1.00 q'd Qty: 1.00	*1* *1*		Cust Item Customer:	D:					
Approvals:	Proces		MLJ	Date: /3-02-/5	Tooling: SPC (Y/N):		ate:			Run Sta Sto	" 7	R1* R2*
Sequence ID/ Work Center II	D		eration cription		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr		Revision	Nbr									
D3914 D4020		B A	:									
*100 *100* Large Fab Large Fab		Weld	Memo 1- assemble 2- weld hin ***Visual i	ribs , weld as per dwg D39 ge (3) and Mounting bracket nspect before welding mesh	0.00 14 using DT9607A s as per dwg D3914		(1			SY	13.0	6. <i>b</i> 3
			Cut out	I mesh on basket as per dwg mesh where label plate goes fake sure to place mesh corr sh	in center off basket lid							

110

QC9- Inspect visual per QSI004- Fusion Welds

0.00

Memo

0.00

Quality Control

				·				DQA:	Date:	4 * . *
NCR: Ye	s / No			WORK ORDER NON-		QA Closed:	Date:			
Work Order:	:			DISPOSITION		700	AGAINST DE	PARTMENT	/PROCESS	
Part No).			Rework Scrap Use-as-is Work Order Update	⊣ 1	Skid-tube Machining moforming Large Fab	Crosstube Small Fab Finishing Composite	1	Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
Root				Description of work order update	Initial	A	ction	Sign &		
Cause	Date	Step	Qty	or Non-conformance	Chief Eng	Des	cription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup										
Other										*

FAULT CATEGORY Landing Gear General Pressure/Forced Grain Ovalized Bend Bending Over/Under tolerance Temperature/Cure Centre Not Concentric to O/S BOM/Route Hardware Weld Part Incorrect Broken/Damaged Inspection Incomplete Cracks Wrong Stock Pulled Instructions Incomplete/Unclear Part Lost/Missing Crushed/Crimped. Burrs Part Moved Cuffs Contamination Maintenance Positioned Wrong Heat Treat Countersink Mislabeled Power Loss/Surge Other Cut Too Short Misread Inspection Strip in Tube **Drill Holes** Ripples in Bend Offset Out of Calibration Torque Waves in Extrusion Drawing **Turning Sequence** Finish Out of Sequence Wave/Twist in Tube Folio Outside Dimensions

Process
Supplier
Training
Unapproved

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Ord February-14-1.				*97073*									
Item ID: Revision ID:	D3914-041			Accept	*N900	040	100)* s	etup Start	1 4	S1*		
Item Name:	Long Basket	t Lid Assembly (350)							Stop	*N	S2*		
Start Date: Required Date	2/25/13 : 2/25/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* · *1*		Cust Item I Customer:	D:			·				
Reference:			'	~									
Approvals:	Process P	lan:	Date:	Tooling:	D:	ate:		R	un Start	! <i>N</i>	R1*		
	QC:		Date:	SPC (Y/N):	Da	ate:			Stop	*N	R2*		
Sequence ID/ Work Center I	I D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp		
120		QC5- Inspect part comp	leteness to step on W/O	0.00					**.		2AQ		
120 QC Quality Control		Memo		0.00			·	B	1000U		09		
										,			
130		Black Sandtex(Ref.4.3.5	5.7) per QSI005 4.3	0.00	•					,			
130 Powdercoat		Memo	-30	0.00				IXX	my	13	3/06/		
Powder Coating		Start Time:		lercoat***					·				
W1231	18D	Oven Temp Finish Time											
140		Wing Walk as per dwg	QSI005 4.4 Batch M / 2	5346						10	•		

140 HandFinish

Hand Finishing

Memo

1- Mask data plate and apply wing walk on outside surface of mesh as per dwg

0.00

2- Install placard and label as per dwg

***Mask label plate to size of label, use scotchbrite red pad to lightly sand area for label, apply label ***

											DQA:	Date:	
NCR:	NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE											Date:	
		· · · · · · · · · · · · · · · · · · ·	***************************************			DISPOSITION				AGAINST DE	QA Closed:		
Work Ord	-		-			Rework Scrap Use-as-is		f	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-1	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR I	No				- 	Work Order Update			Large Fab	Composite] ′	Supplier	
Root					Descri	ption of work order update	t	nitial		tion	Sign &		
Cause		Date -	Step	Qty	C	or Non-conformance	Ch	ief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier													
Training	Н												
Unapproved	П												
	•	-	•	:		F	AUI	T CATE	GORY				
Landi	ng G	ear				General							<u> </u>
	Landing Gear Bending Control Not Concentrate O/S					Bend BOM/Route		Grain Hardwa	ro		Ovalized Over/Under	tolerance	Pressure/Forced Temperature/Cure
Centre Not Concentric to O/S Cracks					J/3 -	Broken/Damaged	\vdash	4	on Incomplete		Part Incorre	-	Weld
Crushed/Crimped					-	Burrs		4	ions Incomplete	Unclear	Part Lost/M	 	Wrong Stock Pulled
	Cuffs					Contamination		Mainte	•		Part Moved		.
Heat Treat						Countersink		Mislabe	eled		Positioned \	Vrong	
	Inspection Strip in Tube					Cut Too Short	Misread			Power Loss,	'Surge	Other	
	-	Ripples in	-			Drill Holes Offset							
	П	Torque W	aves in E	xtrusio	1	Drawing	Out of Calibration						

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Finish

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Work	Order	ID	97073
			D. 1.

Quality Control

97073

Page 3

February-14-13	1:35:51 PN	1		9/(17.5				1 age 3
Item ID: Revision ID:	D3914-041			Accept	*N9000	14010	n *	Setup Start	*NS1*
Item Name:	Long Basket	Lid Assembly (350)						Stop	*NS2*
Start Date:	2/25/13	Start Qty: 1.00	*1	*	Cust Item ID	:			
Required Date:	: 2/25/13	Req'd Qty: 1.00	*1	*	Customer:			·	
Reference:				•			_		
Approvals:	Process Pl	an:	Date:	Tooling:	Dat	e:		Run Start	*NR1*
	QC:		Date:	SPC (Y/N):	Dat	e:		Stop	*NR2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty		Reject Insp. Number Stamp
150		QC3- Inspect Part Finish		0.00				1	160 / /
150 QC Quality Control		Memo		0.00			_\ <u>X</u>	\$	M 1310610
160		Identify as per dwg & Sto	ck Location:	1292-062	97248	! .	,	. /	
160 Packaging Packaging		Memo		0.00				φ	Bl 13-6-5.
	-								1
170		QC21- Final Inspection -	Work Order Releas	se 0.00					
170 _{QC}		Memo		0.00		•	/	MCS	13-06-06

Modele

DQA:	Date: _	

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

									QA Closea:	Date:	
Work Orde	r:				DISPOSITION			AGAINST DE	PARTMENT	PROCESS	
Work Orac	· ·				Rework		Skid-tube	Crosstube		Water Jet	Engineering
Part N	0.				Scrap		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	The	rmoforming	Finishing		e/Packaging	Other
NCR N	0.				Work Order Update		Large Fab	Composite		Supplier	
Root				Descri	ption of work order update	Initial	Ac	tion	Sign &		
Cause	Date	Step	Qty	(or Non-conformance	Chief En	g Desc	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling											
Operator											
Material							1				
Setup											
Other											
Process											
Supplier											
Training											
Unapproved									<u> </u>	<u> </u>	
					F	AULT CAT	EGORY				
Landir	ng Gear				General			_	1	_	- , .
	Bending			ļ	Bend	Grain	l	_	Ovalized	_	Pressure/Forced
	Centre No	ot Conce	ntric to	o/s	BOM/Route	Hard			Over/Under	-	Temperature/Cure
	Cracks			<u></u>	Broken/Damaged	— `	ction Incomplete	_	Part Incorre	-	Weld
ļ	Crushed/Crimped Burrs						ctions Incomplete/	'Unclear	Part Lost/M	_	Wrong Stock Pulled
	Cuffs Contamination						tenance,	_	Part Moved		
1	Heat Treat Countersink					Misla	beled		Positioned V	_	7
	Inspection Strip in Tube Cut Too Short						Misread Power Loss/Surge Other				Other
	Ripples in Bend Drill Holes						Offset				
. [Torque W	aves in E	xtrusio	n [_	Drawing	Out o	f Calibration				
Turning Sequence Finish						Out of Sequence					
ſ	Wave/Tw	ist in Tul	эe		Folio	Outsi	de Dimensions				·

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Loc Qty

5 5

5

3

Location WA004

WA005

88651

82928

88649 88652 Loc Code

NCR: Y												
										QA Closed:	Date	:
Work Orde	or.				DISPOSITION	l			AGAINST DE	PARTMENT	/PROCESS	
Part N					Rework Scrap		r	Skid-tube Machining	Crosstube Small Fab Finishing	4	Water Jet d. Eng. Coor. re/Packaging	Engineering Quality Other
NCR N	No				Use-as-is Work Order Update			noforming Large Fab	Composite	Nec/stol	Supplier	
Root					ption of work order update	1	nitial	Act		Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chi	ef Eng	Descr	iption	Date	Verification	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved												
					F.	AUL	T CATE	GORY		<u> </u>		
Landir	ng Gear Bending				General Bend		Grain			Ovalized		Pressure/Forced
	Centre N	ot Conce	ntric to (D/S	BOM/Route	\vdash	Hardwa			Over/Under	 	Temperature/Cure
	Cracks				Broken/Damaged	-		on Incomplete		Part Incorre	⊢	Weld
		/Crimped	-		Burrs	\vdash		ions Incomplete/L	Jnclear	Part Lost/M	issing	Wrong Stock Pulled
	Cuffs				Contamination	\vdash	Mainte		·	Part Moved		
	Heat Tre	at		· L	Countersink	\vdash	Mislabe		<u> </u>	Positioned \		- 1
	Inspection	n Strip in	Tube	· L	Cut Too Short	Misread			<u> </u>	Power Loss	'Surge	Other
! [Ripples i	n Bend			Drill Holes		Offset					

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

February-14-13 10:49:07 AM

Parent Item Name Long Basket Lid Assembly (350) 100 Each 52,000 3											97073	Vork Order ID:
D4016-3 Hinge Half, Lid Manufactured Hinge Half, Lid No 100 Each \$2,0000 3 3 411/31 31 31 31 31 31 31 31 31 31 31 31 31 3	13	Required Date: 2/25/13	Re	Date: 2/25/13	Start D						D3914-041	arent Item:
Location Loc Ott Loc Code B95565 \rightarrow 31 B1/3 \rightarrow 13 B1/48 \rightarrow 32 B95565 \rightarrow 31 B1/3 \rightarrow 13 B1/3 \rightarrow 13 B1/3 \rightarrow 14 B1/4		Required Qty: 1.00	R	Qty: 1.00	Start					Assembly (350)	Long Basket Lid As	arent Item Name:
92306 8 94755 8 8 95317 18 95563 18 95		31 > 3 7	1481.	3 394	52.0000	Each	100		No	Manufactured		
92306		5-3x ON	563-	3955	Loc Code		Loc Qty	Location				
92306	·06·03	3013.0		• , -			52	WA004				
94755 8 95317 18 95563 18 95317 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 95563 18 976 \$\frac{1}{3} \text{QOO}\$ \$\f										•		
Poblish Pob												
Delta Del					,		18	95317				
Location Loc Oty Loc Code Loc Code Loc Oty Loc Code Loc Cod					•		. 18	95563				
Location Loc Ote Loc Code Manufactured No 100 Each 9,0000 18,92,695 13.5		22 -> 84	7692	3 97 C	18.0000	Each	100		No	Manufactured		
Mesh (350 Basket Long, Lid) Location Loc Oty Loc Code WA007 9 92524 5 96611 4 Data Plate Location Loc Oty Location Loc Oty WA007 9 92524 5 96611 4		1Hin			Loc Code		Loc Qty	Location				
Mesh (350 Basket Long, Lid) Location Loc Oty Loc Code WA007 9 92524 5 96611 4 Data Plate Location Loc Oty Location Loc Oty WA007 9 92524 5 96611 4	3.06 °C	413						WA004				
Manufactured No					•							
Location Loc Otv Loc Code WA007 9 92524 5 96611 4 16.0000 1 8.8 5 5 18 18 18 18 18 18	·06·62		2695	73926	9.0000	Each			No	Manufactured	Lid)	
92524 5 96611 4				_	Loc Code		Loc Qty	Location			•	_
Page							9	WA007				
Data Plate Manufactured No 100 Each 16,0000 1 88,85/0 JJ 3 Location Loc Oty Loc Code WA004 16							5	92524				
Data Plate Location Loc Oty Loc Code WA004 16 80897 9 82507 1 90783 6 Lid Rib Assembly, Fwd (350 Basket) Loc Oty Loc Code WA005 7 Loc Code WA005 D40 Code		•					4	96611				
WA004 16 80897 9 82507 1 90783 6 D4035-041 Manufactured No 100 Each 7.0000 1 B 977733	3.06.0	10 St 13.	85/0	1 B 88	16.0000	Each	100		No	Manufactured		
80897 9 82507 1 90783 6 D4035-041 Manufactured No 100 Each 7.0000 1 B 97733 Jb/3 Location Loc Oty Loc Code WA005 7					Loc Code		Loc Qty	Location				
80897 9 82507 1 90783 6 D4035-041 Manufactured No 100 Each 7.0000 1 B 97733 Jb/3 Lid Rib Assembly, Fwd (350 Basket) Location Loc Oty Loc Code WA005 7							16	WA004				
82507 1 90783 6 D4035-041 Manufactured No 100 Each 7.0000 1 977433 1513 Lid Rib Assembly, Fwd (350 Basket) Location Loc Oty Loc Code WA005 7												
D4035-041 Manufactured No 100 Each 7.0000 1 3 97733 July 1 Lid Rib Assembly, Fwd (350 Basket) Loc Oty Loc Code Loc Code WA005 7							1	82507				
Location Loc Qty Loc Code WA005 7					4		6					•
Location Loc Qty Loc Code WA005 7	•	0.1	1	1	7.0000	Each	100		No	Manufactured		4035-041
Location Loc Qty Loc Code WA005 7	3.06.0	32 SD 13	7732	B 97						Manufactured	(350 Basket)	id Rib Assembly, Fwd (
•					Loc Code		Loc Oty	Location				
•			÷									
89282 5			·····		•		5	89282				
91763 2												

NCR: \	Yes	/ No				WORK ORDER NON-C	O	NFORM	MANCE / UPI	DATE			•	
											QA Closed:	Dat	:e:	
Morle Orde	~ = -					DISPOSITION				AGAINST DE	PARTMENT	/PROCESS		
Work Orde	-					Rework Scrap Use-as-is		1	Skid-tube Machining noforming	Crosstube Small Fab Finishing	-	Water Jet d. Eng. Coor. re/Packaging		Engineering Quality Other
NCR N	No.					Work Order Update			Large Fab	Composite]	Supplier		
Root					Descri	ption of work order update	1	nitial	Act	ion	Sign &			
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	<u>1</u>	QC Inspector
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved		Date Step Qty								·			:	
						F.	AUL	T CATE	GORY					
Landi						General		1			7		_	7
	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube					Bend BOM/Route Broken/Damaged Burrs Contamination Countersink		Instruct Mainte Mislabe	ion Incomplete ions Incomplete/l enance eled	Unclear	Ovalized Over/Under tolerance Part Incorrect Part Lost/Missing Part Moved Positioned Wrong			Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled
		Inspection	n Strip in	Tube		Cut Too Short		Misread	d d		Power Loss,	/Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Date:

DQA:

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

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Picklist Print

February-14-13 10:49:07 AM

Lid Rib Assembly, Aft (350 Basket)

Work Order ID:

97073

Parent Item:

D3914-041

Parent Item Name: Long Basket Lid Assembly (350)

D4035-043

Manufactured

No

Start Date: 2/25/13

Required Date: 2/25/13

Page 3

Start Qty: 1.00

Required Qty: 1.00

100 Each 6.0000

Loc Code

Location Loc Qty WA005 81202 81452 82988

91978

NCR: Yes / No WORK ORDER NON-CONFORMANCE / UPDATE QA Closed: Date:															
<u> </u>						T		r				JA Cioseu.	D.	te.	
Work Ord	or:					DISPOSITION				AGAINST D	ΕP	ARTMENT/	PROCESS	•	
Work Ord	er.					Rework	1		Skid-tube	Crosstube	٦		Water Jet		Engineering
Part	Nο					Scrap		ł	Machining	Small Fab	┪	Prod	d. Eng. Coor.	\vdash	Quality
, , ,	10.		•••			Use-as-is		1	noforming	Finishing	7		e/Packaging	\vdash	Other
NCR	No.					Work Order Update	1	•	Large Fab	Composite	1		Supplier		
Root					Descri	ption of work order update	Initial Action			ion		Sign &			
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Descr	ription	1	Date	Verification	n	QC Inspector
Doc/Data															
Equip/Tooling											İ				
Operator											İ				
Material									1						
Setup											١)	
Other	<u> </u>														
Process	L														
Supplier															
Training											1				
Unapproved							<u> </u>				_				
							AUI	LT CATE	GORY	·····					
Landi	ng (1				General	_	1		_	\neg				l _n ,,
Bending					. -	Bend	\vdash	Grain		-		Ovalized	. 1	\vdash	Pressure/Forced
Ì	Centre Not Concentric to O/S					BOM/Route	<u> </u>	Hardwa		<u> </u>	-	Over/Under		\vdash	Temperature/Cure
Cracks					<u> </u>	Broken/Damaged	\vdash	-1 ·	on Incomplete	, , <u> </u>	-	Part Incorred		\vdash	Weld
	Crushed/Crimped_					Burrs	-	4	ions Incomplete/l	Jnclear	-	Part Lost/Mi	ssing		Wrong Stock Pulled
	Cuffs					Contamination		Mainte		<u> </u>		Part Moved	.,		
	<u> </u>	Heat Trea				Countersink	<u> </u>	Mislabe		Positioned Wrong			10.4		
1	1	Unspection	n Strin in	Tube	1	Cut Too Short Misread					Power Loss/Surge Other				

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Ripples in Bend

Turning Sequence

Wave/Twist in Tube

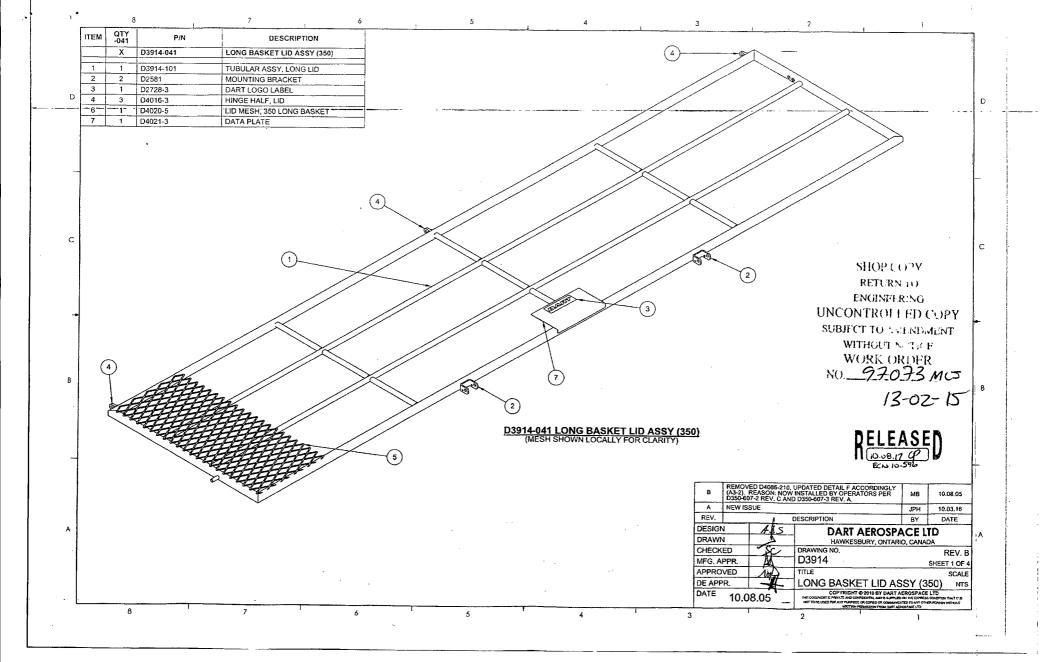
Torque Waves in Extrusion

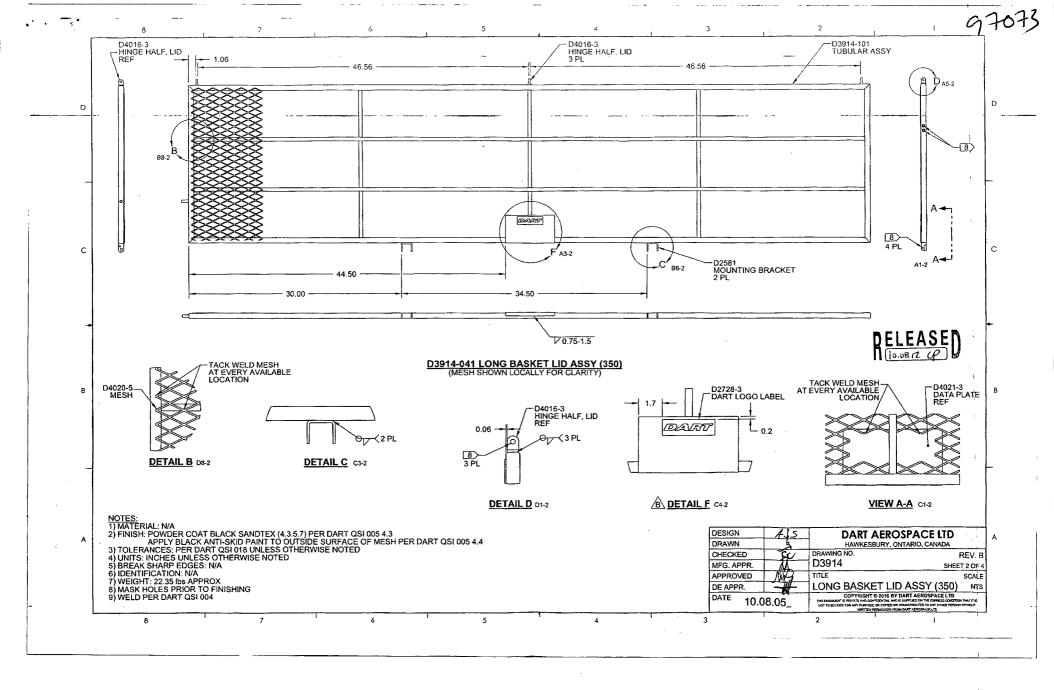
Drill Holes

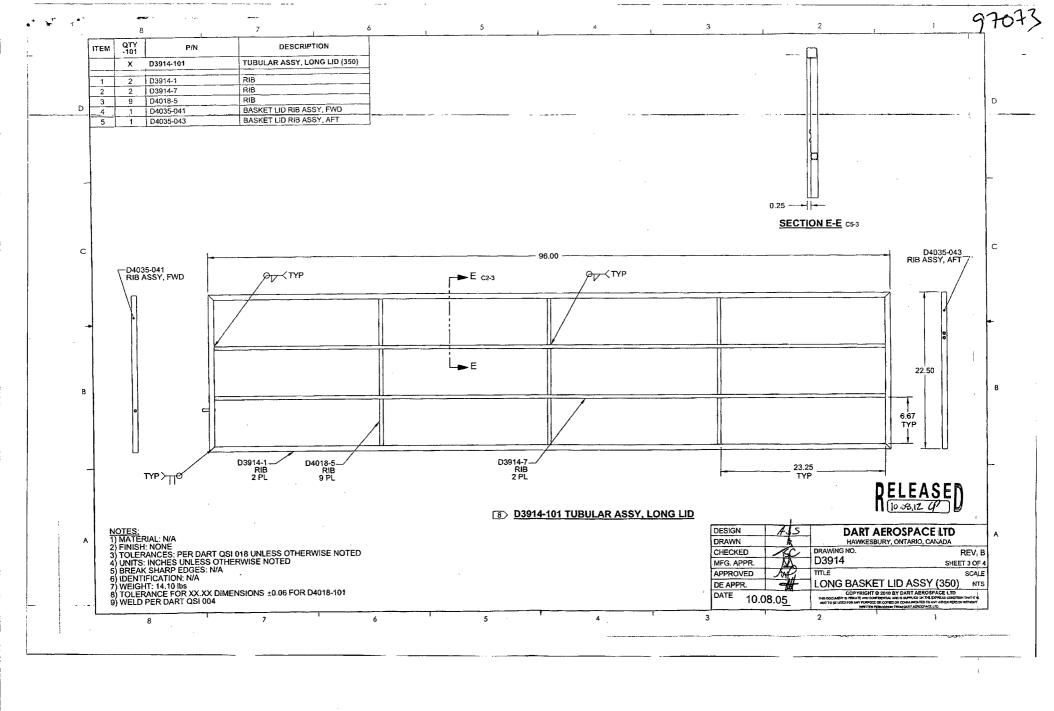
Drawing

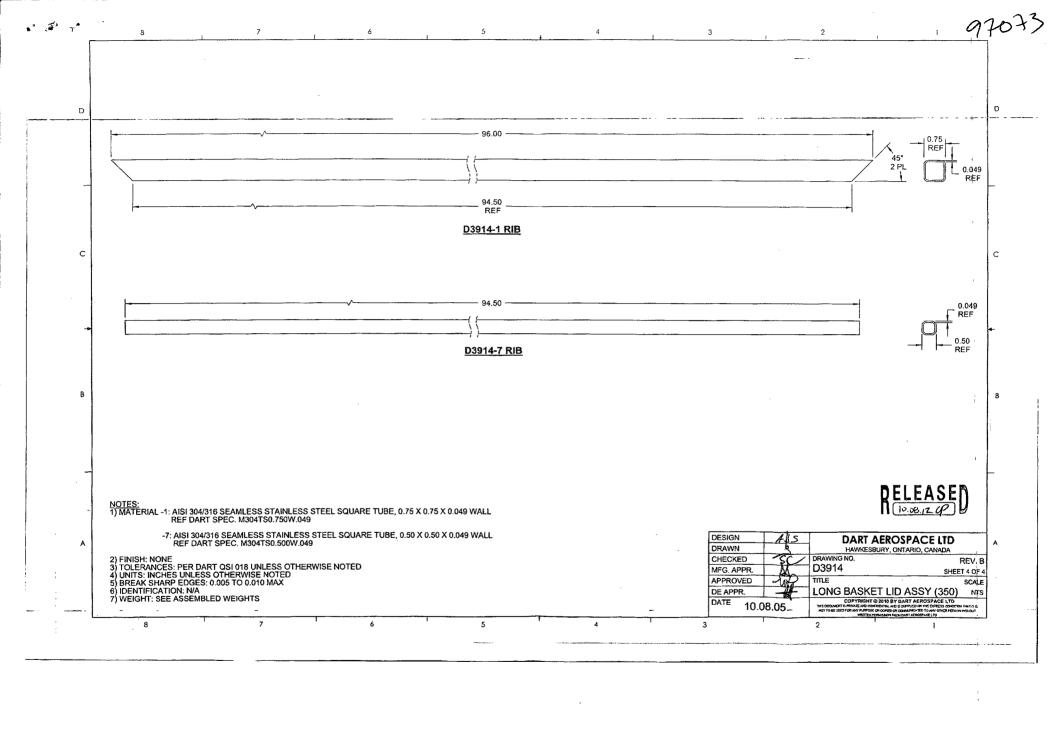
Finish

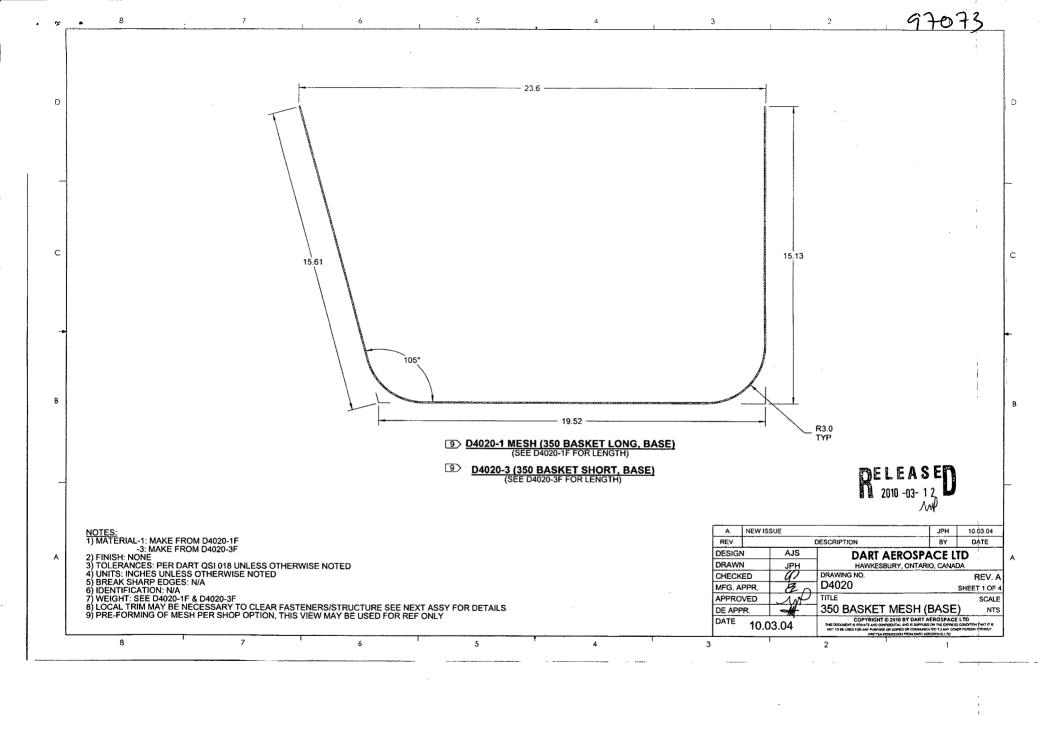
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D4020-5: 95.25 D4020-7: 56.00 С 21.75 2.00 1.25 D4020-7 D4020-5 25.00 44.66 D4020-5 MESH (350 BASKET LONG, LID)
 (LOCAL SECTION MESH SHOWN FOR CLARITY) D4020-7 MESH (350 BASKET SHORT, LID)
 (LOCAL SECTION MESH SHOWN FOR CLARITY) NOTES:
1) MATERIAL: AISI 304/316 EXPANDED STAINLESS STEEL MESH 3/4-16F REF DART SPEC. M304EX0.75-16F
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: N/A
6) IDENTIFICATION: N/A
7) WEIGHT -5: 0.80 Ibs APPROX
-7: 4.49 Ibs APPROX DESIGN AJŞ DART AEROSPACE LTD DRAWN JPH HAWKESBURY, ONTARIO, CANADA DRAWING NO. CHECKED REV. A D4020 MFG. APPR. SHEET 2 OF 4 TITLE APPROVED SCALE 8) LOCAL TRIM MAY BE NECESSARY TO CLEAR FASTENERS/STRUCTURE SEE NEXT ASSY FOR DETAILS 9) TOLERANCE ON XX.XX DIMENSIONS \pm 0.06. 350 BASKET MESH (BASE) DE APPR. NTS COPYRIGHT © 2010 BY DART AEROSPACE LTD
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